

PTO/SB/08B (10-96) [reproduced]
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

				Patent and Trademark Office: U.S. DEPARTMENT OF COMMERC			
Substitute for	Form Page 1			Complete if Known			
				Application Number	10/737,363		
1	RMATION D			Filing Date	December 16, 2003		
SIAIL	EMENT BY	AP	PLICANI	First Named Inventor	Clark TC. Nguyen, et a	1.	
				Group Art Unit	2817		
	(use as many she	ets as	necessary)	Examiner Name	Barbara Summons	<u> </u>	
Sheet	1	of	1	Attorney Docket Number	UOM 0285 PUSP		
	OTHER P	RIO	R ART NON P	ATENT LITERATUR	RE DOCUMENTS		
Examiner Initials	Cite No.!		n (book, magazine, journal, s		ticle (when appropriate), title of the le, page(s), volume-issue number(s), - blished.	2	
B	5	Mi Mi	WANG, KUN, ET AL., VHF Free-Free Beam High-Q Micromechanical Resonators, Journal of Microelectromechanical Systems, Vol. 9, No. 3, September 2000, pp. 453-458				
B	ONOE, M., Contour Vibrations of Isotropic Circular Plates, The Journal of the Acoustical Society of America, Vol. 28, No. 6, November 1954, pp. 1158-1162						
Bandpass Microelec			ndpass Filter, Di	AL., A 600 KHz Electing. Of Papers Int. Colical Systems, MEMS 20			
		T					

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO/SB/08A (10-96) [MODIFIED]
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
ction Act of 1995, in Sersons are required to respond to a collection of information unless it contains a valid OMB control number. MAR 2 9 2006 Under the Paperwork

	m 14494 02 02		\$	Complete if Known		
Substitute for Form 1449A/REVAADEMARKS				Application Number	10/737,363	
INFORMATION DISCLOSURE				Filing Date	December 16, 2003	
STATEMENT BY APPLICANT			PLICANI	First Named Inventor	Clark TC. Nugyen, et al.	
				Group Art Unit	8817	
(use as many sheets as necessary)			cessary)	Examiner Name	Barbara Summons	
Sheet	1	of	3	Attorney Docket Number	UOM 0285 PUSP	

	U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.1	U.S. PATENT D	OCUMENT Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class/Subclass Pagas, Columne, Lines, Where Relevant Passages of Relevant Cigures Appear
786		3,612,922		Furnival	10/12/1971	310/351
36		5,194,836		Vale, et al.	03/16/1993	333/133
136		6,369,374		Greywall	04/09/2002	250/201.1
				-		
						

	FOREIGN PATENT DOCUMENTS							
			Foreign Patent Doo			Date of Publication	Pages, Columns, Lines, Where Relevant	
Examiner Initials	Cite No.1	Office 3	Number 4	Kind Code ^s (if known)	Name of Patentee or Applicant of Cited Document	of Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	Τ°
								
					· · · · · · · · · · · · · · · · · · ·			

					_
Evernings			Date	[/ // /	
Examine	1 Kalling		Date		
Signature	1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .	X1 00000000 V	Considered		
Signature		201111010	Considered		
					_

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-96) [reproduced]
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449B/PTO				Complete if Known		
			N OCUE	Application Number	10/737,363	
	RMATION D			Filing Date	December 16, 2003	
STATE	EMENT BY	AΡ	PLICANI	First Named Inventor	Clark TC. Nguyen, e	t al.
				Group Art Unit	2817	
ĺ	(use as many she	ets as	necessary)	Examiner Name	Barbara Sum	moins
Sheet	2	of				
	OTHER P	RIO	R ART NON P	ATENT LITERATUR	RE DOCUMENTS	
Examiner Initials	Cite No.1	l iter	m (book, magazine, journal, s	CAPITAL LETTERS), title of the ar erial, symposium, catalog, etc.), dat olisher, city and/or country where pu	ticle (when appropriate), title of the te, page(s), volume-issue number(s), blished.	T?
188	-	Mi IE	niaturized Low-Po EEE MTT-S Internat	C., Microelectromecha ower Communications, tional Microwave Symp California, June 18,	posium RF MEMS	
186		Cc Bi	GUYEN, CLARK, TCommunication Trans polar/BiCMOS Circonneapolis, Minnis	s, 2000		
38	,	R€	TANG, WILLIAM C., ET AL., Laterally Driven Polysilicon Resonant Microstructures, Sensors and Actuators, Vol. 20, 1989, Abstract only			
85		Re	NGUYEN, CLARK, TC., An Integrated CMOS Micromechanical Resonator High-Q Oscillator, IEEE Journal of Solid-State Circuits, Vol. 34, No. 4, April 1999, pp. 440-455			
F	7	Mi Mi	WANG, KUN, ET AL., High-Order Medium Fequency Micromechanical Electronic Filters, IEEE, Journal of Microelectromechanical Systms, Vol. 8, No. 4, December 1999, pp. 534-557			
85	-	Fi	ANNON, FRANK D., 1 ilters, IEEE Journ April 2000, pp.	nal of Solid-State C	croelectromechanical ircuits, Vol. 35, No.	
BS	Pierce Reference O		ierçe Reference Os echnical Papers, '	AL., A 10-MHz Microme scillator for Commun Transducers 2001, Mu 094-1097	ications, Digest of	
850	,	Mo De	ode Disk Resonator	T AL., High-Q VHF Micromechanical Contour- ors, Technical Digest, IEEE Int. Electron (IEDM), San.Francisco, California, 000, pp. 493-496		
B		WONG, ARK CHEW, ET AL., A Bonded Microplatform Technology for Modular Merging of RF MEMS and Transfer Circuits, Digest of Papers Int. Conf. on Solid-State Sensors and Actuators, Transducers 2001, June 10-14, 2001				
E	ABDELMONEUM, MOHAMED A., ET AL., Stemless Wine-Glass-Mode Disk Micromechanical Resonators, Digest of Papers Int. Conference of Microelectromechanical Systems (MEMS 2003), January 2003, Kyoto, Japan, pp. 698-701,			t of Papers Int. ystems (MEMS 2003),		

	<u></u>	
Examiner Signature	Bailara Summond Date Consider	dered 4/4/05

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-96) [reproduced]
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

			Patent and Traden	Tark Office: U.S. DEPARTMENT OF C	OWWEHCE
Substitute for Form 1449B/PTO		Complete if Known			
		1001 001105	Application Number	10/737,363	
STATEMENT BY APPLICANT			Filing Date	December 16, 2003	
			First Named Inventor	Clark TC. Nguyen, e	et al.
			Group Art Unit	2817	
	(use as many shee	ets as necessary)	Examiner Name	Barbara Sum	mons
Sheet 3 of 3			Attorney Docket Number	UOM 0285 PUSP	
	OTHER PI	RIOR ART NON I	PATENT LITERATUR	RE DOCUMENTS	
Examiner Initials	Cite No.1	item (book, magazine, journal,	in CAPITAL LETTERS), title of the ar serial, symposium, catalog, etc.), dai ublisher, city and/or country where pu	te, page(s), volume-issue number(s),	T 2
\$		For Multiple-Metal Resonators, Techni	AL., A Sub-Micron Cap 1-Electrode Lateral M ical Diges, IEEE Int. terlaken, Switzerland	icromechanical Micromechanical	
Repeated Mode Pairs			L., Changes In The Nat rs Induced By Cracks : bund and Vibration, Vo . 761-770	In A Vibrating Ring,	
350	5	Square Microresona Resistance, Digest	J., ET AL., Mechanica ator Array For Reduced t of Papers Int. Conf tors, Transducers 200	d Series Motional . on Solid-State	
Contour Mode Disk I			r AL., High-Q UHF Micr Resonators, submitted icroelectromechanical		
10C			., Dick-Shaped Bulk M		-
100		82, May 2000, pp.	-198-204	and Actuators, vor.	
·					
				·	
					<u> </u>

Examiner	Backar Lymman Considered	414/05
Signature	Considered 1	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.